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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-56c/CEMENT/2019-20 Date: 09.03.2020

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	Cement
Sample Received on	:	07.03.2020
Period of Testing	:	07.03.2020 to 09.03.2020
Report Issue Date	:	09.03.2020

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	385 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-56c/Cube/2020-21 08.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	08.04.2020
Report Issue Date	:	08.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.03.2020	08.04.2020	8.117	613.2	27.25
2	11.03.2020	08.04.2020	8.206	625.8	27.81
3	11.03.2020	08.04.2020	8.365	630.2	28.01

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.04.2020
Report Issue Date	:	09.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.03.2020	09.04.2020	8.090	605.4	26.91
2	12.03.2020	09.04.2020	8.150	618.3	27.48
3	12.03.2020	09.04.2020	8.335	622.9	27.68

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	RCC Culvert Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	08.04.2020
Report Issue Date	:	08.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.03.2020	08.04.2020	8.190	610.5	27.13
2	11.03.2020	08.04.2020	8.265	621.8	27.64
3	11.03.2020	08.04.2020	8.320	595.8	26.48

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-56c/Cube/2019-20 19.03.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	Dry Lean Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	Dry Lean Concrete
Compressive Strength as on	:	7^{th} day
Sample Received on	:	19.03.2020
Report Issue Date	:	19.03.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.03.2020	19.03.2020	8.216	259.5	11.53
2	12.03.2020	19.03.2020	8.327	264.5	11.76
3	12.03.2020	19.03.2020	8.158	272.3	12.10

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Job No.: CTCE/BBMP/KRIDL/W.No.14/WMM/Gradation/2020-21 10.03.2020

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2016)
Date of Testing	:	10.03.2020
Report Issue Date	:	10.03.2020

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	105	105	2.1	97.9	95-100
22.4	1560	1665	33.30	66.70	60-80
11.2	1050	2715	54.30	45.70	40-60
4.75	625	3340	66.80	33.20	25-40
2.36	580	3920	78.40	21.60	15-30
0.600	355	4275	85.50	14.50	8-22
0.075	480	4755	95.10	4.90	0-8

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-56c/Cube/2020-21 11.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2020
Report Issue Date	:	11.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2020	11.04.2020	8.125	716.9	31.86
2	14.03.2020	11.04.2020	8.226	721.3	32.06
3	14.03.2020	11.04.2020	8.164	732.6	32.56

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-56c/Cube/2020-21

13.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
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* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.04.2020
Report Issue Date	:	13.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2020	13.04.2020	8.112	705.5	31.36
2	16.03.2020	13.04.2020	8.226	715.6	31.80
3	16.03.2020	13.04.2020	8.329	730.8	32.48

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